

# PATENT ABSTRACTS OF JAPAN

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## (54) MOVING VECTOR DETECTION CIRCUIT

### (57)Abstract:

PURPOSE: To expand the detection range of a moving vector by adding plural frame differences, detecting a minimum value, calculating an offset in horizontal and vertical directions from the result and controlling a representative point setting section and a switch.

CONSTITUTION: An output of the representative point setting section 2 connected to a frame memory 1 and subject to offset control and a preceding frame are subtracted by a subtractor 3 and the difference is added (4) by number of representative points. A minimum value of the sum of frame differences is detected (5) to detect a minimum value  $V_x$  and  $V_y$  of the moving vector in horizontal and vertical directions and to calculate an offset of the moving vector in horizontal and vertical directions thereby controlling the representative point setting section 2 and switches 6, 9 via horizontal and vertical offset control sections 11, 12. Moreover, values from offset devices 7, 10 and the minimum values  $V_x$ ,  $V_y$  are added (8) to form horizontal and vertical moving vectors. Thus, the detection enable range of the moving vector is expanded rapidly.



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